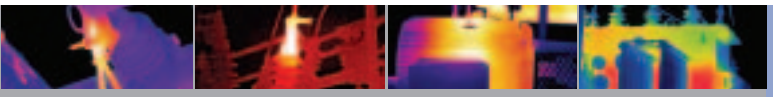
FLIR™
The Global Leader in Infrared Cameras

ThermaCAM® EX300
INFRARED CAMERA



The ThermaCAM® EX300 has a true, built-in 320 x 240 pixel array, giving you four times the resolution of any IR camera in its size and price range, and making it the first, low cost, ultra portable infrared camera to provide such detailed imaging and superior performance.

Plant Engineering PRODUCT of the YEAR WINNER

The latest addition to the award-winning FLIR ThermaCAM® E-Series family

- Robust Post Processing Capabilities
- Interchangeable Optics
- Built-in Laser LocatIR™
- Easy-to-use
- Easy-view 2.5" Color LCD
- 320 x 240 Pixel Array Provides 4x Resolution
- High Thermal Sensitivity for Optimal Accuracy
- Highly Portable 1.76 lb

Best Image Quality

The EX300 features the highest resolution and image quality available in a handheld infrared camera. The built-in 320 x 240 pixel array provides 76,800 picture elements in each image – for unsurpassed image clarity – highlighting even small intricate targets in fine detail.

Most Accurate Temperature Measurement

The EX300 is the most accurate lightweight, handheld IR camera on the market today. Using the world's best infrared detector material, vanadium oxide, the EX300 sees temperature differences as small as 0.08°C and provides 76,800 picture elements in each image.

Lightweight, Rugged & Ergonomic

The EX300 is built tough for hard work in the field and in all weather conditions and industrial environments — a critical design capability. Dust and splash proof, the EX300 meets IP 54 standards. Unlike other cameras that might be "lab calibrated," the EX300 won't seize-up in freezing cold, extreme heat or other harsh conditions. Its exclusive Ambient Temperature Compensation (ATC) technology assures accuracy under the most challenging ambient temperature conditions.

Download and Document

Download thermal images with measurements to your PC quickly with ThermaCAM QuickView™ software and standard USB or serial cables. Document your findings simply by inserting the JPEG images into your favorite word processing program.

Flexible JPEG Image Storage with Post Processing

Store and recall more than 80 calibrated thermal images using the camera's on-board memory. The EX300's radiometric JPEG image format allows you to go back to any image at any time to add and move spots, measure temperatures, and perform analysis you may have missed in the field.

View Sensitive Thermal Images

A maintenance-free, state-of-the-art uncooled FPA infrared detector produces crisp thermal images that reveal subtle temperature variations that can signal electro-mechanical problems. The EX300 can detect problems before they become critical, helping you increase safety, reduce production downtime, and eliminate potential fires.

Pinpoint Problems with Precision

The built-in Laser LocatIR™ projects a bright red dot on the target that enables you to associate the IR image with the real physical target. This feature greatly enhances worker safety by eliminating the tendency to "finger point" at problems in potentially hazardous electrical environments.

Interchangeable Optics

EX300 optional lenses are; telescopic – ideal for inspecting distant targets such as overhead power lines, and wide-angle – more than doubles the standard field-of-view, for evaluating large objects from a short distance, such as roofs and electrical panels.

Smart Power Management

Lightweight, longlife Li-Ion batteries assure uninterrupted inspections. The EX300 includes an external 2-bay battery charger and an internal battery charger. A 12 VDC car/truck charger adapter is also available.

Infrared can accurately and quickly locate faults before failures, shutdowns, or even fires occur.

ThermaCAM® EX300 Technical Specifications

Imaging Performance	
Field of view/min focus distance	Interchangeable; 25° x 19° (standard), 15° x 11° or 45° x 36°
Thermal sensitivity (N.E.T.D)	< 0.08° C at 25° C
Detector type	Focal Plane Array (FPA), uncooled Vanadium Oxide micro bolometer, 320 x 240 pixels
Spectral range	7.5 to 13 µm
Spot size ratio (with 15° lens)	500:1
Image Presentation	
Display	2.5" color LCD, 320 x 240 pixels in IR image
Image Controls	Palettes (Iron, Rainbow, RainbowHC, B/W, B/W inv), Level, Span, Auto adjust (continuous/manual) and semi-automatic
Measurement	
Temperature range	-20° C to +250° C (-4° F to +482° F) and 0° C to +500° C (+32° F to 932° F) Up to 1200° C (2192° F), optional
Accuracy	± 2°C (±3.6°F) or ± 2% of absolute temperature in °C
Measurement modes	1 movable spot, area max, area min, area average, temp difference, color alarm above or below
Set-up controls	Date/time, Temperature units °C/°F, Language (English, Spanish), Scale, Info field, LCD intensity (high/normal/low)
Measurement corrections	Reflected ambient. Automatic, based on user-input
Image Storage	
Digital storage functions	Freeze, Store, Standard Calibrated JPEG images, Delete all images, Delete image, Open
Image storage capacity	More than 80 Calibrated JPEG Images with image gallery
Laser LocatIR™	
Classification	Class 2
Type	Semiconductor AlGainP Diode Laser: 1mW/635 nm (red)
Power Source	
Battery type	Li-Ion; rechargeable, field replaceable (2)
Battery operating time	2 hours. Display shows battery status
Battery charging	In camera, AC adapter or 12V from car with optional 12V cable. 2 bay intelligent charger (included)
AC operation	AC adapter, 90-260VAC, 25/30 Hz/12VDC out
Voltage	11 to 16VDC
Power saving	Automatic shutdown and sleep mode (user-selectable)
Environmental	
Operating temperature range	-15 °C to +45 °C (5 °F to 113 °F)
Storage temperature range	-40 °C to +70 °C (-40 °F to 158 °F)
Humidity	Operating and storage 20% to 80%, non-condensing, IEC 359
Water and dust resistant (encapsulation)	IP 54
Shock	25g, IEC 68-2-29
Vibration	2g, IEC 68-2-6
Physical Characteristics	
Weight	0.8 kg (1.76 lb.), includng battery and 25° lens
Size (L x W x H)	272mm x 80mm x 105mm (10.7" x 3.2"" x 4.1") with 25° lens
Color	Titanium grey
Tripod mounting	Standard, 1/4" - 20
Interfaces	
USB (cable included)	Image transfer to PC
Video output	NTSC, standard RCA composite video
Software	
ThermaCAM® QuickView Software (included), Compatible with ThermaCAM® Reporter, Microsoft® Office Suite	

Camera includes:
IR camera
Ruggedized transport case
Built-in Laser LocatIR™
Power supply and cord
Hand strap
Lens cap
ThermaCAM® QuickView™ software
USB cable
Video-out cable
User manual (multilingual)
Battery (2)
2-Bay battery charger
Training CD
Interchangeable lenses (optional)
2X Telescope (15° X 11°/0.5m)
0.5X Wide angle (45° X 36°/0.2m)

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1 800 464 6372
CANADA: 1 800 613 0507
www.flirthermography.com/EX300data

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